

PRODUCT INFORMATION PACKET



Model No: 483A
Catalog No: 483A

Fan and Blower Motor, 3/4,1/2,1/3 HP, 1 Ph, 60 Hz, 208-230 V, 1625 RPM, 3 Speed, 48 Frame, OPEN



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Nameplate Specifications

Output HP	3/4,1/2,1/3 Hp	Output KW	0.56 kW
Frequency	60 Hz	Voltage	208-230 V
Current	4.9,3.3,2.2 A	Speed	1625 rpm
Service Factor	1	Phase	1
Duty	Air Over	Insulation Class	B
Frame	48Y	Enclosure	Open Enclosed
Thermal Protection	Automatic	Ambient Temperature	40 °C
UL	Recognized	CSA	Y
CE	N	Number of Speeds	3

Technical Specifications

Electrical Type	Permanent Split Capacitor	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Mounting	Resilient Rings	Motor Orientation	Any
Drive End Bearing	Ball	Opp Drive End Bearing	Ball
Frame Material	Rolled Steel	Shaft Type	Double Flat
Overall Length	11.80 in	Frame Length	4.75 in
Shaft Diameter	0.500 in	Shaft Extension	6.0 in
Connection Drawing	614131-351	Outline Drawing	F48Z46A01-S01

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GENERAL INFORMATION:

SHAFT RUNOUT: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BEARINGS: BALL

MOUNTING POSITION: ALL ANGLE

ELECTRICAL DATA:

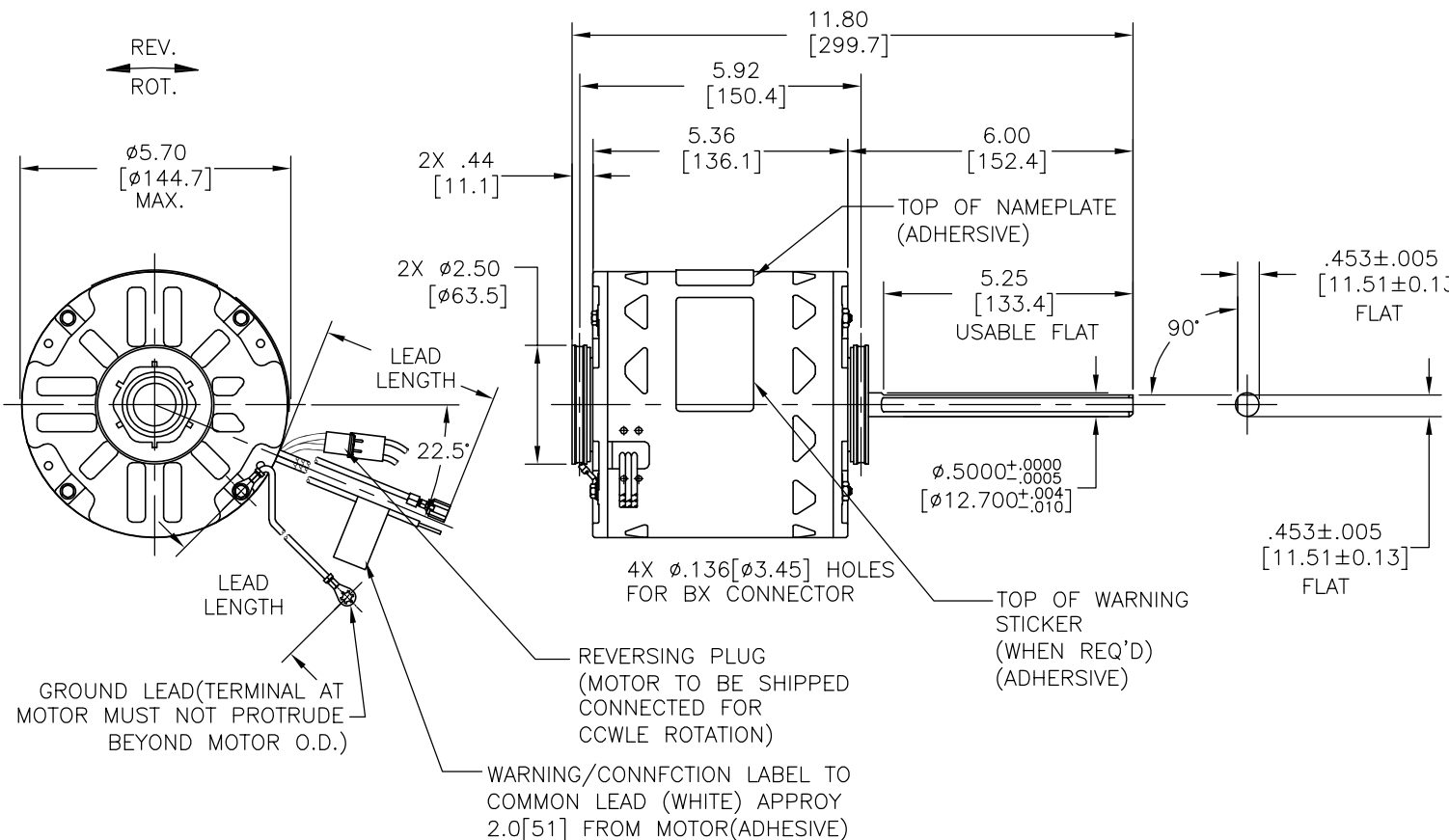
OVERLOAD PROTECTOR: AUTOMATIC RESET (T.I. 7AM 036)

LEADS: NO. 18 GA., .06 [1.5] THK. PVC 105°C INSUL.

REVERSING LEADS: NO. 18 GA., .03 [.8] THK. XLP 125°C INSUL.

GROUND LEADS: NO. 18 GA., .03 [.8] THK. (GREEN/YELLOW) INSUL.

REV	REFERENCE ECN	REFERENCE PROJECT	REV BY	DATE	APPD	DATE
B	00005604	0702395	Amy F	09/06/2007		



NAMEPLATE DATA:	EXTERNAL CONNECTION DIAGRAM
MODEL NO.: F48Z46A01 CUST. P/N: 483A HP: 3/4,1/2,1/3 ROT.: REVERSIBLE RPM: 1625 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 4.9,3.3,2.2 HZ: 60 INS.: B AMB.: 40°C DUTY: AIR OVER CAP.: 7.5 MFD/370V ENCL: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED	SEP. CAP. BROWN BROWN/WG WHITE BLACK HI BLUE MED RED LO LINE ROTATION BLACK BLACK WHITE WHITE CCWLE BLACK WHITE WHITE BLACK CWLE 614131-351

GRN/YEL(GRD)	11.0/13.0 [279/330]	#10 EYELET
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG(MALE)
BLACK/WHITE	3.0/5.0 [76/127]	REVERSING PLUG(FEMALE)
BROWN	25.0/27.0 [635/686]	.25[6.4] FEMALE SPADE
BROWN/WHITE	25.0/27.0 [635/686]	.25[6.4] FEMALE SPADE
RED	25.0/27.0 [635/686]	.50[12.7] SKIN
BLUE	25.0/27.0 [635/686]	.50[12.7] SKIN
BLACK	25.0/27.0 [635/686]	.50[12.7] SKIN
WHITE	25.0/27.0 [635/686]	.50[12.7] SKIN
COLOR	LENGTH	TERMINAL OR STRIP LENGTH

MAIN FRAME - OLE	OPEN
END FRAME - OLE	OPEN
MAIN FRAME - LE	OPEN
END FRAME - LE	OPEN

CUSTOMER	DISTRIBUTION SERVICES
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PERFORMANCE CURVE NO.	TORQUE @ 1625 RPM (25°C)	APPROVED SAMPLE	UL COMPONENT FILE #	GUIDE #	CSA FILE #	GUIDE #
C32723	49.4 OZ. FT.	0604324B	E46412	PRGY2	LR43341	4211-01

GEOMETRIC CHARACTERISTICS & SYMBOLS

- FLATNESS
- STRAIGHTNESS
- ANGULARITY
- PERPENDICULARITY (SQUARENESS)
- PARALLELISM
- ROUNDNESS (CIRCULARITY)
- CYLINDRICITY
- PROFILE OF ANY SURFACE
- PROFILE OF ANY LINE
- RUNOUT
- TRUE POSITION
- CONCENTRICITY
- SYMMETRY

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DIMENSIONS WITHOUT TOLERANCES ARE FOR REFERENCE ONLY.

DR BY: AMY 07-02-2007

APPD:

THIRD ANGLE PROJECTION

EDS DATE 01-21-2007
FORMAT REV E

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A.O. SMITH
ELECTRICAL PRODUCTS COMPANY
TIPP CITY, OHIO

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CORPORATION
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DESCRIPTION: OUTLINE

SIZE: C DWG NO: F48Z46A01

SCALE: NONE SHEET: 1

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REVISION:	ECN REFERENCIA:	PROYECTO REFERENCIA:	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
B	00005604	0702395	Amy F	09/06/2007		

INFORMACION GENERAL:

OSCILACION DE FLECHA: .001 [.03] T.I.R. PER INCH LENGTH OF EXTENSION

BALEROS: BALAS

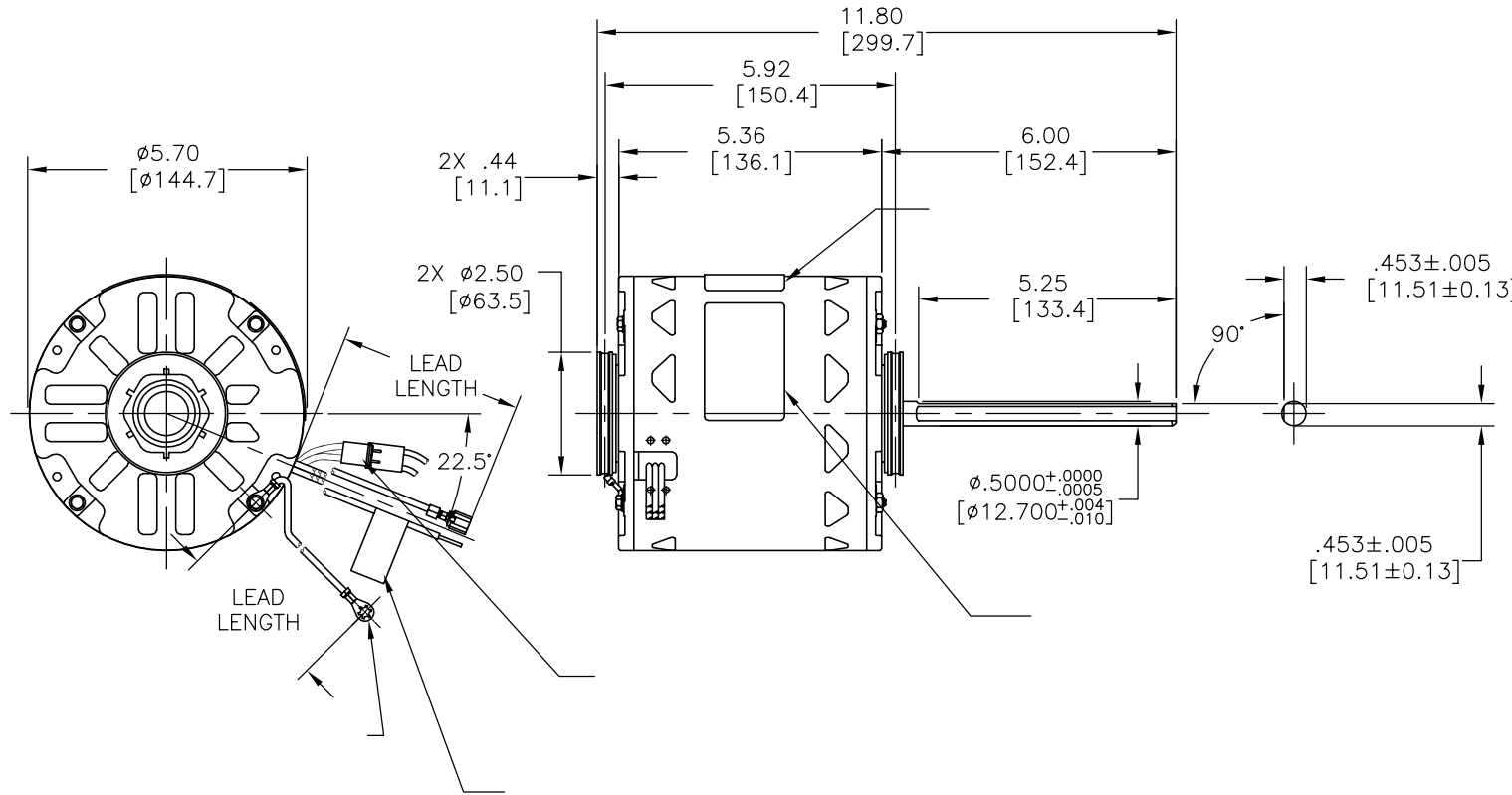
POSICION DEL MONTAJE: FLECHA VERTICAL HACIA ABAJO

INFORMACION ELECTRICA:

SOBRECARGA DEL PROTECTOR: REINICIO AUTOMATIC (T.I. 7AM 036)

CABLES: NO. 18 GA., .06 [1.5] THK. PVC 105°C AISLAM.

CABLE DE TIERRA: NO. 18 GA., .03 [.8] THK. (VERDE) AISLAM.



INFORMACION DE ETIQUETA:	DIAGRAMA DE CONEXION EXTRNA
F48Z46A01 CUST. P/N: 483A HP: 3/4,1/2,1/3 ROT.: REVERSIBLE RPM: 1625 TYPE: UF FRAME: 48Y VOLTS: 208-230 PH: 1 AMPS: 4.9,3.3,2.2 HZ: 60 INS.: B AMB.: 40°C DUTY: AIR OVER CAP.: 7.5 MFD/370V ENCL: OPEN UL LOGO CSA LOGO THERMALLY PROTECTED	

DE CARCASA - OLE	
DE TAPA - OLE	
DE CARCASA - LE	
DE TAPA - LE	

CLIENTE	
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CURVAS DE FUNCIONAMIENTO	TORSION @ RPM (25°C)	MUESTRA APROBADA	COMPONENTE UL	CSA
#ARCHIVO	CCN #	#ARCHIVO	CLASE #	
C32723	49.4 OZ. FT.	0604324B	E46412 PRGY2	LR43341 4211-01

CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS ▽ PLANICIDAD — RECTITUD ∠ ANGULARIDAD ⊥ PERPENDICULARIDAD (A ESCUADRA) // PARALELISMO ○ REDONDEZ (CIRCULARIDAD) ∅ CILINDRICIDAD △ PERFIL DE CUALQUIER SUPERFICIE ∩ PERFIL DE CUALQUIER LINEA ↑ VARIACION ⊕ POSICION REAL ⊙ CONCENTRICIDAD = SIMETRIA

A.O. SMITH PROVEE ASISTENCIA TECNICA A NUESTROS CLIENTES EN VARIAS AREAS. DESDE QUE A.O. SMITH NO RECIBE TODOS LOS DATOS EN RELACION AL USO Y A LA APLICACION DEL MOTOR, LA APLICACION ADECUADA DEL MOTOR DEBE SER DETERMINADA POR EL CLIENTE.

DIMENSIONES SIN TOLERANCIA SON DE REFERENCIA SOLAMENTE

DIBUJADO POR: AMY	07-02-2007
APROBADO POR:	
TERCER ANGULO DE PROYECCION	FECHA EDS: 01-21-2007
	REV. FORMATO: E
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DESCRIPCION: OUTLINE			
TAMAÑO: C	NUMERO DE DIBUJO: F48Z46A01		
ESCALA:NONE			HOJA: 1

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总要求:

轴跳动: 0.03/25.4mm (外伸轴).

轴承: 球轴承.

安装位置: 垂直 - 轴向下

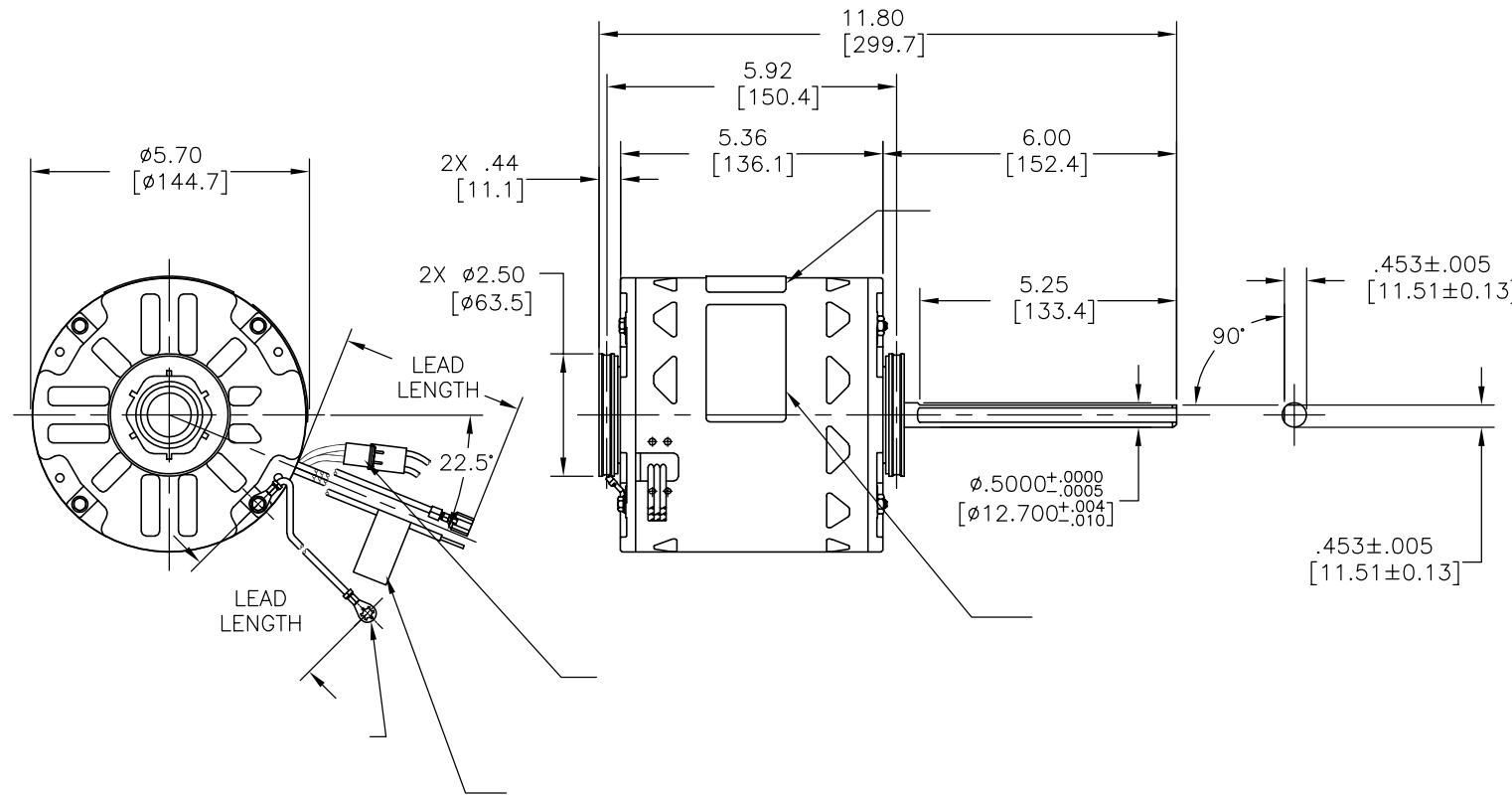
电气数据:

过载保护: 自动复位 (T. I. 7AM 036)

引线: 18GA, 厚.06[1.5] PVC 105°C 绝缘

接地线: 18GA, 厚.03[0.8] 绿色绝缘

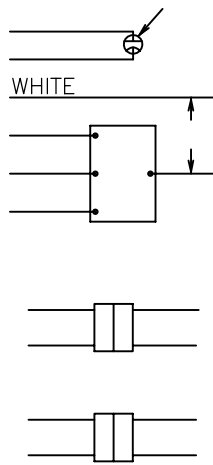
版本	更改通知号	项目号	编制	日期	批准	日期
B	00005604	0702395	Amy F	09/06/2007		



铭牌数据

外部连接详图

F48Z46A01
 CUST. P/N: 483A
 HP: 3/4, 1/2, 1/3
 ROT.: REVERSIBLE
 RPM: 1625
 TYPE: UF
 FRAME: 48Y
 VOLTS: 208-230
 PH: 1
 AMPS: 4.9, 3.3, 2.2
 HZ: 60
 INS.: B
 AMB.: 40°C
 DUTY: AIR OVER
 CAP.: 7.5 MFD/370V
 ENCL: OPEN
 UL LOGO
 CSA LOGO
 THERMALLY PROTECTED



性能曲线编号	转矩在 RPM (25° C)	批准样品	UL 部件		CSA	
			文件号	指南	文件号	指南
C32723	49.4 OZ. FT.	0604324B	E46412	PRGY2	LR43341	4211-01

颜色	长度	端子或剥线长度

非引线端机壳	
非引线端端盖	
引线端机壳	
引线端端盖	

用户

- 形位公差
- 平面度
- 直线度
- ∠ 倾斜度
- ⊥ 垂直度
- ∥ 平行度
- 圆度
- ⊘ 圆柱度
- ⊙ 面轮廓度
- ⌒ 线轮廓度
- ↗ 圆跳动
- ⊕ 位置度
- ⊙ 同轴度
- ≡ 对称度

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 由客户自己决定。

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ASME Y14.5M 1994	

名称	OUTLINE
图幅	C
图号	F48Z46A01
比例	NONE
页号	1

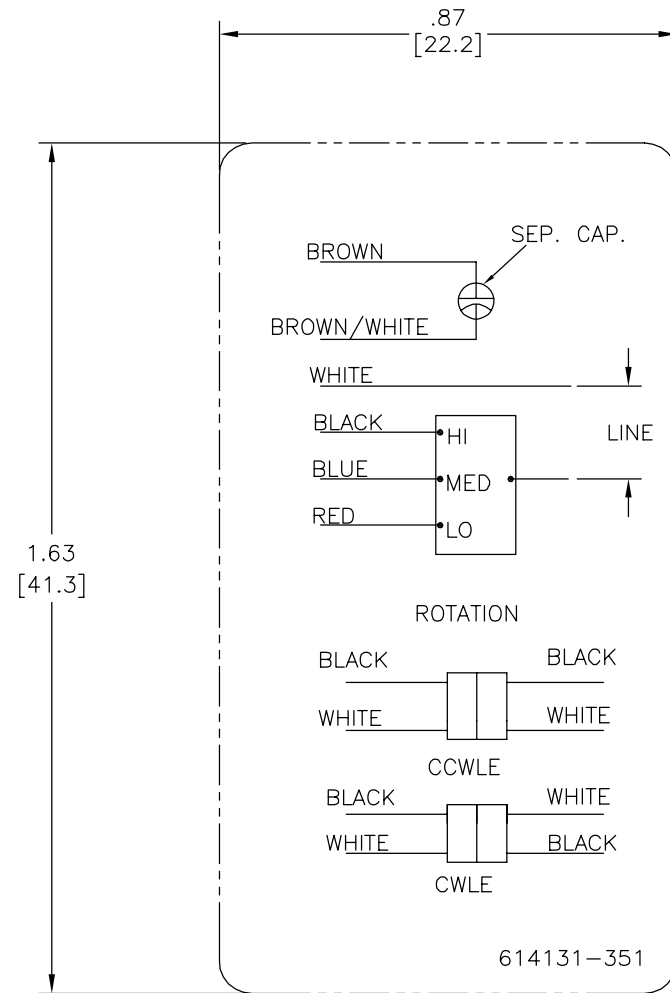
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REV	ECO	REV BY	DATE	APPD	DATE
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



NOTES:

1. FOR USE WITH 614129 OR 2513020-001 NAMEPLATE BLANKS;
2. ——— INDICATES DIMENSION LIMITS

GEOMETRIC CHARACTERISTICS & SYMBOLS	
▭	FLATNESS
—	STRAIGHTNESS
∠	ANGULARITY
⊥	PERPENDICULARITY (SQUARENESS)
//	PARALLELISM
○	ROUNDNESS (CIRCULARITY)
⊘	CYLINDRICITY
△	PROFILE OF ANY SURFACE
∧	PROFILE OF ANY LINE
↗	RUNOUT
⊕	TRUE POSITION
◎	CONCENTRICITY
≡	SYMMETRY

UNLESS OTHERWISE SPECIFIED DIM. TOLERANCES ARE AS FOLLOWS:	
INCH	X XX XXX XXXX ±.1 ±.02 ±.005 ±.0005
mm	±0.5 ±0.13 ±0.013
ANG. ±.50 DEG	
REMOVE BURRS & BREAK SHARP EDGES: INCH .003-.015 mm 0.1-0.4	
CORNER FILLETS TO: INCH .020 mm 0.5	
MACHINE SURFACES: INCH 125 mm 3.2	
METRIC DIMS. SHOWN IN [BRACKETS]	

DR BY:	YL	04-08-2011
APPD:	CZ	04-08-2011
THIRD ANGLE PROJECTION	⊕	EDS DATE 11-11-2011 FORMAT REV H
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REGAL REGAL-BELOIT CORPORATION	
DESCRIPTION CONN DIAGRAM-NAMEPLATE	
SIZE C	DWG NO 614131-351
SCALE NONE	SHEET 1

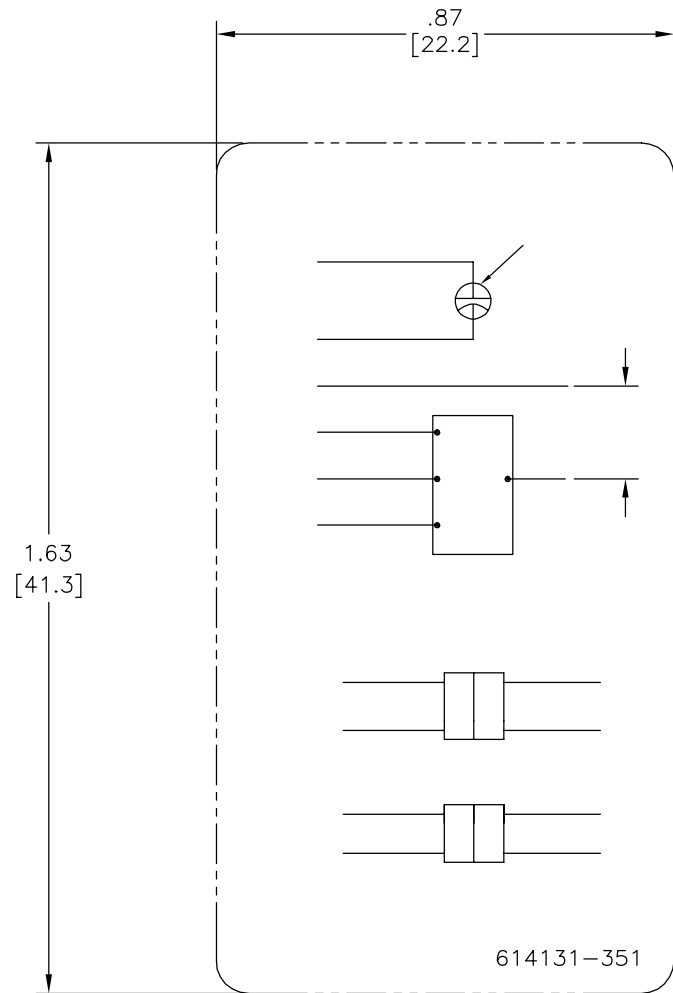
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REVISION:	ECO	REVISADO POR:	FECHA:	APROBADO POR:	FECHA:
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



<p>CARACTERISTICAS DE GEOMETRIA Y SIMBOLOS</p> <p>□ PLANICIDAD</p> <p>— RECTITUD</p> <p>∠ ANGULARIDAD</p> <p>⊥ PERPENDICULARIDAD (A ESCUADRA)</p> <p>// PARALELISMO</p> <p>○ REDONDEZ (CIRCULARIDAD)</p> <p>∅ CILINDRICIDAD</p> <p>△ PERFIL DE CUALQUIER SUPERFICIE</p> <p>∧ PERFIL DE CUALQUIER LINEA</p> <p>↑ VARIACION</p> <p>⊕ POSICION REAL</p> <p>◎ CONCENTRICIDAD</p> <p>= SIMETRIA</p>	<p>ASME Y14.5M 1994</p>
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<p>A MENOS QUE SE ESPECIFIQUE DE OTRA MANERA, LAS TOLERANCIAS DE LAS DIMS; SON LAS SIGUIENTES:</p> <p>PULG ±.1 ±.02 ±.005 ±.0005</p> <p>mm ±0.5 ±0.13 ±0.013</p> <p>ANG. ± 50 GRADOS</p> <p>ELIMINAR REBABAS Y ORILLAS FILOSAS DEL BORDE.</p> <p>PULG .003-.015 mm 0.1-0.4</p> <p>FILETEAR ESQUINA: PULG .020 mm 0.5</p> <p>MAQUINAR SUPERFICIES</p> <p>PULG 125 mm 3.2</p>	<p>DIMS METRICAS MOSTRADAS [PARENTESIS]</p>
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DIBUJADO POR:	YL	04-08-2011
APROBADO POR:	CZ	04-08-2011
TERCER ANGULO DE PROYECCION		FECHA EDS: 11-11-2011
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DESCRIPCION:	
CONN DIAGRAM-NAMEPLATE	
TAMAÑO: C	NUMERO DE DIBUJO: 614131-351
ESCALA: NONE	HOJA: 1

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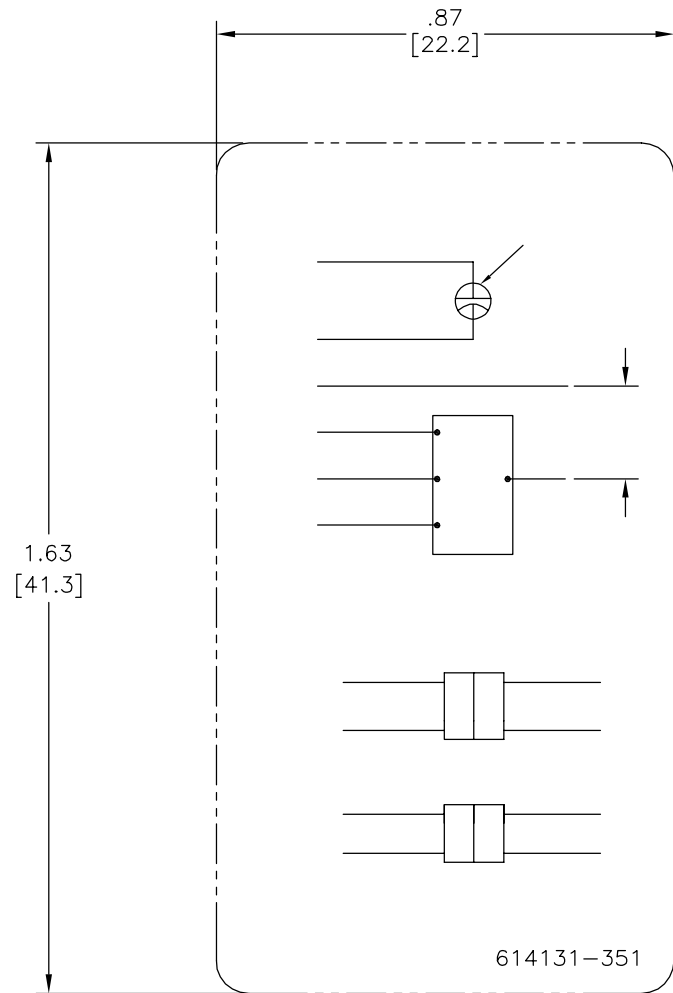
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版本	ECO	编制	日期	批准	日期
C	0027023	N.HONG	06-24-2012	B.SHEN	06-24-2012



形位公差	除另有注明 尺寸公差如下:
□ 平面度	英寸 X XX XXX XXXX
— 直线度	毫米 ±0.1 ±0.02 ±0.005 ±0.0005
∠ 倾斜度	毫米 ±0.5 ±0.13 ±0.013
⊥ 垂直度	角度 ±.50 度
// 平行度	清理毛刺和尖棱
○ 圆度	英寸 .003-.015 毫米 0.1-0.4
⊘ 圆柱度	内圆角
△ 面轮廓度	英寸 .020 毫米 0.5
∩ 线轮廓度	表面粗糙度
↗ 圆跳动	英制 125 米制 3.2
⊕ 位置度	米制尺寸显示在 []
⊗ 同轴度	
≡ 对称度	

ASME Y14.5M 1994

绘图:	YL	04-08-2011
批准:	CZ	04-08-2011
第三角投影		图纸格式发布日期 11-11-2011 图纸格式版本 H
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名称	CONN DIAGRAM-NAMEPLATE	
图幅	C	图号 614131-351
比例	NONE	页号 1

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